

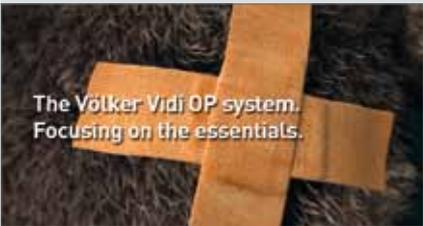
# The Vidi OP system

## Focusing on the essentials.



Standards viewed anew.





Wherever Vidi OP is in use, you can be sure of high-resolution interventions. Film about the advantages at [www.voelker-medical.de](http://www.voelker-medical.de).

The Vidi OP system

## Viewing medicine anew.



Take a fresh look at high-resolution video technology. Treat yourself to impressive HDTV image quality for documentation, presentations and training films. And in the process, boost your clinic's profitability and range of services. Vidi OP, a system that fits in perfectly.

Just one additional support arm, and you're in the picture with Vidi OP. Or you can add to your existing operating theatre lights: the modular design makes it possible, the system structure makes it practical. You're opting today for the video technology standards of tomorrow. And staying at the cutting edge of HDTV technology in the long term. Your existing investments will retain their value because the Vidi OP system is compatible with SD components.

## Vidi OP advantage 1

# Fast, easy control system.

The doctor has a clear view.  
And has everything in hand.



Complete concentration  
on the operation. Complete  
control of the Vidi OP  
camera via the control unit.



Horizontally, vertically, everywhere: the Vidi OP controls allow you to capture every detail at any time. Manually or electronically. Always intuitively and to the point, so that you focus on what matters: the operation.

## Vidi OP advantage 2

# Focusing on new horizons: zoom and image alignment.



Go into detail, the perspective is yours. At the touch of a button directly from the operating table.



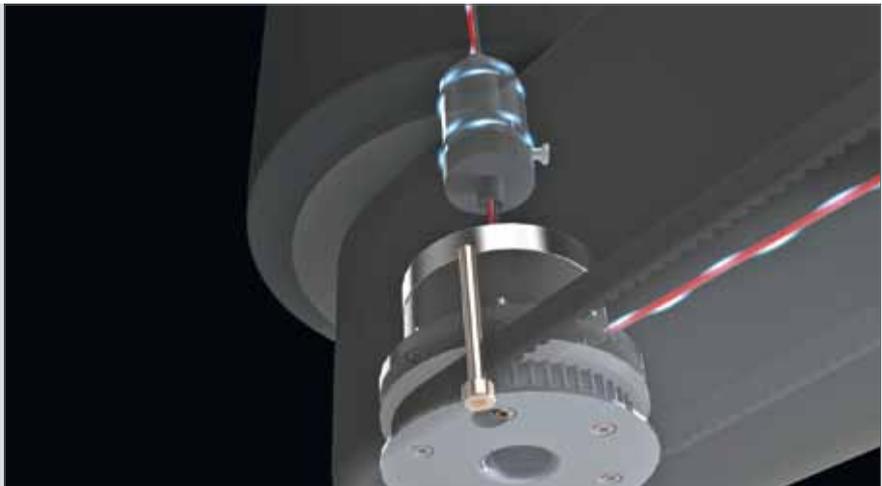
Image alignment from a distance via the control unit. Everything under control, and the operating team have their hands free.

Get a detailed view. From every perspective, even in difficult positions. If a large team is at work and the angle of view is difficult, just zoom the Vidi OP in on what matters, and optimise the horizontal alignment. As fast and flexibly as the situation demands, at the touch of a button on the camera or the control unit.

## Vidi OP advantage 3

# Reliable in any position: the signal transmission.

Vidi OP signal transmission even includes slip rings, thus exploiting the durability of the support arm hinges.



Twin-wire transmission of video and communication signals: one of many Völker video technology advances.



Through the invention of twin-wire transmission, Völker Video- und Datentechnik has set new signal transmission reliability standards. This permits the use of durable, robust slip rings in hinges, which is also a Völker development. The advantage is that, if there are no cables, they cannot be damaged by twisting, and free rotation is guaranteed. This in turn ensures a longer working life and reduces maintenance time and cost.

## Vidi OP advantage 4

# Here today, there tomorrow: moving the camera.



Unfasten the safety levers and the Vidi OP camera is ready for a fast move.



Simply insert the Vidi OP camera in the Vidi OP socket, and the contact for signal transmission has been made. Fasten the safety levers, and the job is done.

Stay flexible by using the Vidi OP camera wherever it is needed. It has never been easier, as it can even be integrated into existing operating theatre lighting systems with minimal effort, regardless of the manufacturer. Great images without major investment.

## Vidi OP system components

# Setting the standards for HDTV and functionality.

Modular structure designed for the special requirements of the operating theatre environment: the Vidi OP system.

The handle permits rapid alignment, while images are precisely aligned using the zoom and rotation buttons on the support arm.

Simply adding an extra support arm is sufficient to upgrade your existing lights with the latest HDTV video technology.

Command headquarters: the control unit. For intuitive zooming and horizontal and vertical alignment from a distance. Autofocus, image settings and freeze-frames can also be controlled conveniently and precisely.





The Vidi OP camera provides superb HDTV resolution, and is designed for use on a support arm or in operating theatre light sockets.



The red markings indicate that the safety levers are unfastened. Simply fasten them to secure the camera.



The Vidi OP connection socket: worth remembering when considering your operating theatre light design, as it optimises the operating theatre lights for use with the Vidi OP camera.

## Vidi OP system data

# Technology, assembly and special features.

### Video system:

HDTV 1080i 50/60Hz

### Electrical and manual alignment of the camera on the support arm

Horizontal swivel:

- 185° ... 0 ... + 185°

Vertical tilt:

+ 45° ... 0 ... + 91°

Rotation:

- 185° ... 0 ... + 185°

### Wiring

2\*2 twisted-pair wires for transmission of video and control signals and power supply

### Camera

Total length: 179 mm

Frontal diameter: 68 mm

Max. diameter: 90 mm

Weight: 1.25 kg

### Control unit

Dimensions:

445 mm (W), 305 mm (D), 47 mm (H)

Weight: 3.3 kg

Power supply: 9

6 to 264 V AC, 50 to 60 Hz

### Video outputs (HD)

- \* Two HD-SDI
- \* Two DVI 1080i
- \* YUV analog

### Video outputs (SD)

- \* FBAS (PAL/NTSC)
- \* Y/C (PAL/NTSC)

### External control

Control unit interfaces:

- \* LAN connection
- \* RS-232, RS-485
- \* independent system interface

### Software

PC software for external control of the camera system via the network connection

### Certification

- \* Certified according to EN-60601 for medical products
- \* UL certification
- \* Manufactured in accordance with ISO DIN EN 9001-2008

Changes and errors excepted made due to technological progress. Detailed data sheets available at [www.voelker-medical.de](http://www.voelker-medical.de).

Völker Medical

## Spotlight on the video technology of tomorrow.



Thomas Völker, engineering graduate and managing director of Völker Video- und Datentechnik.

Völker Medical is a division of Völker Video- und Datentechnik, and is the world leader in the development of operating theatre video technology. Founded on almost two decades of knowledge, Völker Medical has achieved a unique specialisation in medical video technology. The result is the Vidi OP system. The world's first and only HDTV video system for integration with operating theatre lights.

The engineer Thomas Völker and an ambitious team of specialists are the force behind the operation, with their commitment to continuously improving standards. Because the only acceptable video technology solutions are the ones that prove themselves in the long term. Made in Maintal, Germany.

**Standards viewed anew.**

**Völker Medical**

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